

1 CLAIMS

2 What is claimed is:

3 1. An access management system for managing access to  
4 registrant data comprising:

5 an authorization engine for controlling access to a  
6 registrant database storing registrant data including  
7 privacy data of a registrant and for controlling access to  
8 the registrant database by use of a prescribed privacy  
9 policy and condition data designated by the registrant,

10 wherein the authorization engine includes an authori-  
11 zation judgment unit for deciding an access type from an  
12 access request received from outside and concerning the  
13 registrant data, for controlling reference to the registrant  
14 database based on the access request by use of access  
15 authorization data to be decided prior to the access request  
16 in connection with the access type.

17 2. The access management system according to claim 1,  
18 further comprising:

19 a preliminary calculation unit for calculating the  
20 access authorization data in advance; and

21 a storage area for storing the access authorization  
22 data.

23 3. The access management system according to claim 1,

24 wherein the access authorization data comprises an  
25 identification value for executing access authorization  
26 which is generated in advance from the privacy policy and  
27 the condition data.

28 4. The access management system according to claim 2,

1           wherein the access authorization data comprises a  
2 table which is generated in advance by use of the privacy  
3 policy and the condition data and is written in a format to  
4 exclude the access authorization data which are not accessed  
5 in response to any of the access type and the condition data  
6 designated by the registrant.

7   5.   The access management system according to claim 4,  
8        wherein the access authorization data further  
9 comprises an authorization list and a disapproval list.

10   6.   An access management method for managing access to  
11 registrant data by use of a computer system, the method  
12 includes the steps of:  
13        causing an authorization engine to receive an access  
14 request from outside;  
15        causing the authorization engine to decide an access  
16 type from the access request;  
17        reading access authorization data to be decided prior  
18 to the access request in connection with the access type  
19 concerning the registrant data and comparing the access  
20 authorization data with the access type; and  
21        controlling reference to a registrant database associ-  
22 ated with the access request based on the comparison.

23   7.   The access management method according to claim 6,  
24 further comprising the step of:  
25        storing in a storage area the access authorization  
26 data including an identification value for executing access  
27 authorization created by a creation unit.

28   8.   The access management method according to claim 6,  
29 further comprising the step of:  
30        storing in a storage area access authorization data

1 including a table which excludes the access authorization  
2 data not accessed in response to an access type or the  
3 condition data designated by a registrant, by use of a  
4 privacy policy and condition data.

5 9. The access management method according to claim 8,  
6 further comprising the step of:  
7 storing an authorization list and a disapproval list  
8 in the storage area in addition to the access authorization  
9 data.

10 10. A computer-executable program for causing a computer to  
11 execute the access management method according to claim 6.

12 11. A computer-readable recording medium storing the  
13 computer-executable program according to claim 10.

14 12. An access management system for managing access to  
15 registrant data through a network, comprising:

16 a network;

17 a registrant database connected to the network that  
18 stores the registrant data containing privacy of a  
19 registrant;

20 an authorization engine connected to the network for  
21 controlling the access to the registrant database by use of  
22 an application execution unit for issuing an access request  
23 to the registrant database and by use of a given privacy  
24 policy relevant to the registrant data and condition data  
25 designated by the registrant upon receipt of an access  
26 request from the application execution unit; and

27 a management server for generating access authoriza-  
28 tion data to be decided prior to the access request in  
29 connection with an access type and for causing the authori-  
30 zation engine to use the access authorization data.

1 13. The access management system according to claim 12,  
2 wherein the authorization engine controls the access  
3 by use of the access authorization data including an identi-  
4 fication value, which is generated by use of the privacy  
5 policy and the condition data and includes an identification  
6 value for executing access authorization.

7 14. The access management system according to claim 12,  
8 wherein the authorization engine controls the access  
9 by use of a table in a format arranged to exclude the access  
10 authorization data not accessed in response to any of the  
11 access type and the condition data designated by the regis-  
12 trant by use of the privacy policy and the condition data,  
13 and by use of the access authorization data including an  
14 access list and a disapproval list.

15 15. An access controlling method for controlling a computer  
16 to manage access to registrant data through a network, the  
17 access management method comprising the steps of:

18 causing an authorization engine to use access authori-  
19 zation data calculated in advance through the network;

20 causing the authorization engine to receive an access  
21 request from outside to a registrant database storing the  
22 registrant data containing privacy of the registrant;

23 deciding an access type upon receipt of the access  
24 request from the outside; and

25 controlling the access to the registrant database by  
26 comparing the access type decided as described above with  
27 the access authorization data decided prior to the access  
28 request.

29 16. The access management method according to claim 15,  
30 wherein the access authorization data are generated by

1 use of a privacy policy and condition data and includes an  
2 identification value for executing access authorization.

3 17. The access management method according to claim 15,  
4 wherein the access authorization data includes a table  
5 in a format arranged to exclude the access authorization  
6 data not accessed in response to any of the access type and  
7 condition data designated by the registrant, an access list,  
8 and a disapproval list by use of the privacy policy and the  
9 condition data.

10 18. An article of manufacture comprising a computer usable  
11 medium having computer readable program code means embodied  
12 therein for causing for managing access to registrant data  
13 by use of a computer system, the computer readable program  
14 code means in said article of manufacture comprising  
15 computer readable program code means for causing a computer  
16 to effect the steps of claim 6.

17 19. A program storage device readable by machine, tangibly  
18 embodying a program of instructions executable by the  
19 machine to perform method steps for managing access to  
20 registrant data by use of a computer system, said method  
21 steps comprising the steps of claim 6.

22 20. A computer program product comprising a computer usable  
23 medium having computer readable program code means embodied  
24 therein for causing management of access to registrant data,  
25 the computer readable program code means in said computer  
26 program product comprising computer readable program code  
27 means for causing a computer to effect the functions of  
28 claim 1.

29 21. A computer program product comprising a computer usable

1 medium having computer readable program code means embodied  
2 therein for causing management of access to registrant data  
3 through a network, the computer readable program code means  
4 in said computer program product comprising computer  
5 readable program code means for causing a computer to effect  
6 the functions of claim 12.